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202306UECM34630E2b

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Started on	Sunday, 23 July 2023, 09:36 PM
Completed on	Sunday, 23 July 2023, 09:36 PM
Time taken	15 secs
Grade	0 out of a maximum of 10 (0%)

1
Marks: 1

Suppose S is a compound frequency distribution with primary and secondary distributions N_1 and N_2 , respectively. N_1 and N_2 are Poisson with parameters $\lambda_1 = 6.3$ and $\lambda_2 = 2.8$, respectively. Find $1000P(S = 2)$. _____

Answer:

[Make comment or override grade](#)

Incorrect
Correct answer: 5.594756
Marks for this submission: 0/1.

2
Marks: 1

Suppose the probability generating function (pgf) of the primary distribution is

$$P(z) = e^{4.7(z-1)}$$

and the pgf of the secondary distribution is


$$P(z) = [1 - \beta(z-1)]^{-1},$$

and the probability of no claims equals 0.72. Calculate 1000β . _____

Answer:

[Make comment or override grade](#)

Incorrect
Correct answer: 75.146831
Marks for this submission: 0/1.

3
Marks: 1

Let losses occur following a frequency distribution with

- $P(N = 1) = 0.89$ and
- $P(N = 2) = 0.11$.

Suppose a deductible is imposed such that the probability of a payment resulting from a loss is now 0.69 rather than 1. Determine the probability that the number of payments made is one times 1000. [i.e. $1000P(N^P = 1)$]. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 661.158

Marks for this submission: 0/1.

4

Marks: 1

The number of losses follows a Binomial distribution with $m = 49$ and $q = 0.28$. Loss sizes follow an inverse exponential distribution with $\theta = 100$. Let N be the number of losses for amount less than 200. Determine the standard deviation of N . _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 2.628375

Marks for this submission: 0/1.

5

Marks: 1

Let losses occur following a zero modified binomial distribution with $q = 0.74$, $m = 3$ and $p_0^M = 0.78$. Suppose a deductible is imposed such that the probability of a payment resulting from a loss is now 0.87 rather than 1. Determine the variance of the number of payments made. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 0.80233

Marks for this submission: 0/1.

6

Marks: 1

Number of claims follows a zero modified binomial distribution with $q = 0.83$, $m = 5$ and $p_0^M = 0.71$. Suppose a deductible is imposed such that the probability of a payment resulting from a loss is now 0.84 rather than 1. Determine the probability that the number of payments exceed 3. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 0.1515

Marks for this submission: 0/1.

7

Marks: 1

Aggregate claim frequency for an employee dental coverage covering 20 individuals follows a negative binomial distribution with mean 8 and variance 16. Loss size has an exponential distribution with mean 300. The group expands to 55 individuals and a deductible of 90 is imposed. Calculate the probability of 2 or more claims from the group after these revisions times 1000. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 999.947654

Marks for this submission: 0/1.

8

Marks: 3

Click the following link to answer the questions:

<https://forms.gle/2WhFvoLhU1Le5YxRA>

Then answer 1 here after submitting the form.

[Note: In order to enter the google form, you must make sure that you login to UTAR account. If you see "You need permission", this means that you are not login to UTAR account, switch to UTAR account] _____

Answer:



[Make comment or override grade](#)

Incorrect
Correct answer: 1
Marks for this submission: 0/3.

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